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 ***** STN Columbus *****

FILE 'HOME' ENTERED AT 12:22:17 ON 11 MAR 2008

=> file reg

=> Uploading C:\Program Files\Stnexp\Queries\Queries\10538858.str



```
chain nodes :
11 12 13 14 15 22 23 25 26 27 28 29 30 31 33
ring nodes :
1 2 3 4 5 6 7 8 9 10 16 17 18 19 20 21
chain bonds :
1-11 11-12 11-13 13-14 13-15 15-27 15-28 21-26 22-25 22-23 22-27 26-27
29-30 29-31 31-33
ring bonds :
1-2 1-6 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 16-17 16-21 17-18 18-19
19-20 20-21
exact/norm bonds :
1-2 1-6 1-11 2-3 3-4 4-5 4-7 5-6 5-10 7-8 8-9 9-10 11-12 11-13 13-14
13-15 15-27 15-28 21-26 22-25 22-23 22-27 26-27 29-30 29-31 31-33
normalized bonds :
16-17 16-21 17-18 18-19 19-20 20-21
isolated ring systems :
containing 1 : 16 :
```

G1:H,Ak

Match level :

```
1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom
11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:CLASS 16:Atom 17:Atom 18:Atom
19:Atom 20:Atom 21:Atom 22:CLASS 23:CLASS 25:CLASS 26:CLASS 27:CLASS
28:CLASS 29:CLASS 30:CLASS 31:CLASS 33:CLASS 34:Atom
```

```
=> s l1 sam
L2          12 SEA SSS SAM L1
```

```
=> s l1 full
L3          219 SEA SSS FUL L1
```

=> file caplus

```
=> s l3
L4          1153 L3
```

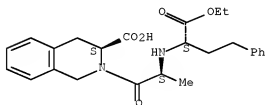
=> s 14 and pd < dec 2002
 22860227 PD < DEC 2002
 (PD<20021200)
 L5 591 L4 AND PD < DEC 2002

=> s 15 and crystalline
 82262 CRYSTALLINE
 L7 2 L5 AND CRYSTALLINE

=> dis 17 1-2 bib abs hitstr

L7 ANSWER 1 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 2002:724292 CAPLUS [Full-text](#)
 DN 138:192997
 TI Solid-state investigations of crystalline and amorphous
 lisinopril and stabilization of amorphous lisinopril and quinapril
 hydrochloride
 AU Hu, Yong
 CS Purdue Univ., West Lafayette, IN, USA
 SO (2001) 169 pp. Avail.: UMI, Order No. DA3037582
 From: Diss. Abstr. Int., B 2002, 62(12), 5742
 DT Dissertation
 LA English
 AB Unavailable
 IT 92586-55-8, Quinapril hydrochloride
 RL: PRP (Properties); THU (Therapeutic use); BIOL (Biological study); USES
 (Uses)
 (solid-state investigations of crystalline and amorphous lisinopril and
 stabilization of amorphous lisinopril and quinapril hydrochloride)
 RN 82586-55-8 CAPLUS
 CN 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[[[(1S)-1-(ethoxycarbonyl)-3-
 phenylpropyl]amino]-1,2,3,4-tetrahydro-, hydrochloride (1:1),
 (3S)- (CA INDEX NAME)

Absolute stereochemistry.



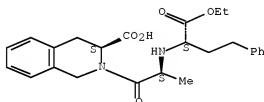
● HCl

L7 ANSWER 2 OF 2 CAPLUS COPYRIGHT 2008 ACS on STN
 AN 1989:38911 CAPLUS [Full-text](#)
 DN 110:38911
 TI Preparation of crystalline quinapril, a known antihypertensive
 IN Goel, Om P.; Krolls, Uldis
 PA Warner-Lambert Co., USA
 SO U.S., 4 pp.
 CODEN: USXXAM
 DT Patent

LA English
FAN.CNT 1

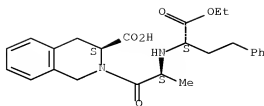
	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 4761479	A	19880802	US 1987-32209	19870330 <--
	AU 8812383	A	19880929	AU 1988-12383	19880229 <--
	AU 605555	B2	19910117		
	ZA 8801426	A	19891025	ZA 1988-1426	19880229 <--
	CA 1291999	C	19911112	CA 1988-560594	19880304 <--
	EP 285992	A1	19881012	EP 1988-105131	19880329 <--
	EP 285992	B1	19910403		
	R: AT, BE, CH, DE, ES, FR, GB, GR, IT, LI, LU, NL, SE				
	JP 63258459	A	19881025	JP 1988-73492	19880329 <--
	AT 62229	T	19910415	AT 1988-105131	19880329 <--
PRAI	US 1987-32209	A	19870330		
	EP 1988-105131	A	19880329		
AB	The title compound (I) an angiotensin converting enzyme and antihypertensive agent is prepared in a highly pure state. A solution of I in glacial AcOH containing HCl(g) was stirred for 2 h 20 min and was diluted with xylene; the process was repeated, the glossy solid dissolved in MeNC and the product dried at 50° under vacuum for 16 h to give 91.2% I-HCl.				
IT	85441-61-8, Quinapril				
	RL: PROC (Process)				
	(conversion of, to crystalline quinapril-hydrochloride)				
RN	85441-61-8 CAPLUS				
CN	3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-, (3S)- (CA INDEX NAME)				

Absolute stereochemistry.



IT 82586-55-8P, Quinapril hydrochloride
RL: SPN (Synthetic preparation); PREP (Preparation)
(crystalline, preparation of)
RN 82586-55-8 CAPLUS
CN 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[(1S)-1-(ethoxycarbonyl)-3-phenylpropyl]amino]-1-oxopropyl]-1,2,3,4-tetrahydro-, hydrochloride (1:1), (3S)- (CA INDEX NAME)

Absolute stereochemistry.



● HCl

=> s 15 and nitroalkane

1499 NITROALKANE

L8 0 L5 AND NITROALKANE

=> s 15 and impurities

212112 IMPURITIES

L9 1 L5 AND IMPURITIES

=> s 19 not 17

L10 1 L9 NOT L7

=> dis 110 bib abs hitstr

L10 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2008 ACS on STN

AN 2000:536766 CAPLUS Full-text

DN 133:227914

TI A validated HPLC method for the assay determination of quinapril, and benazepril in pharmaceuticals and purity evaluation of quinapril in bulk drugs

AU Sreenivas, Rao D.; Srinivasu, M. K.; Narayana, Ch. Lakshmi; Reddy, G. Om

CS Department of Analytical R&D, Dr. Reddy's Research Foundation, Hyderabad, 500050, India

SO Indian Drugs (2000), 37(2), 80-85

CODEN: INDRBA; ISSN: 0019-462X

PB Indian Drug Manufacturers' Association

DT Journal

LA English

AB A reversed-phase, isocratic HPLC method was developed for the quant. determination of ACE inhibitors viz., quinapril, benazepril in bulk drugs and in pharmaceutical dosages. The proposed method is also applicable for the purity evaluation of quinapril in bulk drugs. Benazepril was used as internal standard for the quant. determination of quinapril and vice-versa. The method has been completely validated and proven to be robust. The limit of detection and limit of quantitation for quinapril impurities namely quinaprilat, cyclised quinaprilat and cyclised quinapril were found to be 2.0 µg and 8.0 µg resp. The two drugs were extracted from their resp. tablets using methanol. The percentage recoveries ranged from 96.3 to 98.4 and from 100.4 to 103.5 for quinapril and benazepril resp.

IT 82768-85-2, Quinaprilat 85441-61-8, Quinapril

RL: ANT (Analyte); ANST (Analytical study)

(determination of quinapril, and benazepril in pharmaceuticals and purity evaluation of quinapril in bulk drugs by HPLC)

RN 82768-85-2 CAPLUS

CN 3-Isoquinolinecarboxylic acid, 2-[(2S)-2-[(1S)-1-carboxy-3-

